



GEH-01-060
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Zahm et al.

Serial No.: 09/585,192

Filed: June 1, 2000

For: METHODS AND APPARATUS FOR MEASURING
NAVIGATIONAL PARAMETERS OF A LOCOMOTIVE

Art Unit: 3661

Examiner: B. Broadhead

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REQUEST FOR RECONSIDERATION

Commissioner for Patents
Box RCE
Washington, D.C. 20231

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Sir:

In response to the Office Action dated June 18, 2002, and further in response to an examiner's telephone interview conducted October 3, 2002, Applicants respectfully request consideration of the following remarks.

REMARKS

The Office Action dated June 18, 2002 has been carefully reviewed and, in further consideration of the examiner's telephone interview conducted October 3, 2002, the following remarks are made.

Claims 1-31 are now pending in this application. Claims 1-31 stand rejected.

The rejection of Claims 1-3, 15-17, 30, and 31 under 35 U.S.C. § 102(e) as being anticipated by Lightsey (U.S. Patent No. 6,005,514) is respectfully traversed.

Lightsey describes a method for vehicle roll, pitch, and azimuth attitude determination using GPS carrier phase measurements from nonaligned antennas. The method includes determining S10 the configuration of GPS patch antennas 10 on a vehicle 52, that includes master and slave antennas. Antenna reference frames are then measured S12 and carrier signals are received S14 by each antenna. For each set of carrier signals, a corrected, differential carrier phase is then determined S14. The corrected differential carrier phase